

Notice of Allowability

Application No.

09/989,858

Examiner

Phuongchau Ba Nguyen

Applicant(s)

NAKAMURA ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE 9-13-6.
2. ☒ The allowed claim(s) is/are 18,24-25,19,26-27,20,28-29,21,30-31,22,32-33,23,34-35;Renumbered as 1-18 respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

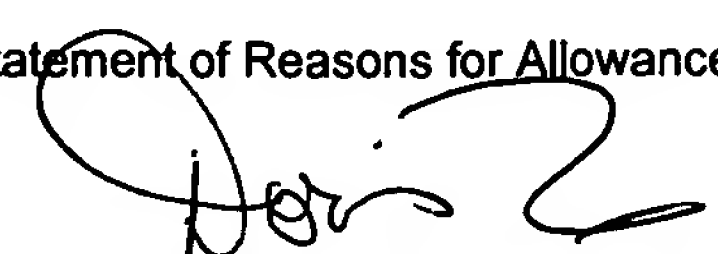
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


DORIS H. TO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Regarding claims 18, 24-25, the prior art of the record fails to teach a frame synchronous pattern detection apparatus, for detecting an actual frame synchronous pattern which is a part of a frame synchronous pattern and is essential to execute frame synchronizing, comprising "sampling from parallel data according to a synchronous digital hierarchy (SDH) transmission system, identifying and holding a region of the parallel data in which said actual frame synchronous pattern is presumably included as provisional region data, and serializing and outputting the provisional region data to said frame synchronous pattern detecting section," which is considered in combination with other limitations, as specified in the independent claim 18.

Regarding claims 19, 26-27, the prior art of the record fails to teach a frame synchronous pattern detection apparatus for detecting an actual frame synchronous pattern which is a part of a frame synchronous pattern and is essential to execute frame synchronizing, comprising "sampling given data,

identifying and holding a region of parallel data in which said actual frame synchronous pattern is presumably included as provisional region data, and serializing and outputting the provisional region data to said frame synchronous pattern detecting section,” which is considered in combination with other limitations, as specified in the independent claim 19.

Regarding claims 20, 28–29, the prior art of the record fails to teach a frame synchronous pattern detection method, for detecting an actual frame synchronous pattern which is a part of a frame synchronous pattern and is essential to execute frame synchronizing, said method comprising the steps of “sampling given parallel data, identifying and holding a region of the parallel data in which said actual frame synchronous pattern is presumably included as provisional region data; and detecting said actual frame synchronous pattern from said provisional region data converted into serial form,” which is considered in combination with other limitations, as specified in the independent claim 20.

Regarding claims 21, 30–31, the prior art of the record fails to teach a frame synchronous pattern detection apparatus comprising “a provisional region detection section for sampling parallel data according to a synchronous digital hierarchy (SDH) transmission system, and identifying and holding a region of the parallel data in which an object frame synchronous pattern is presumably included as provisional region data; and a frame synchronous pattern detecting section for detecting, from said provisional region data, the object frame synchronous pattern, said provisional data being serialized and output from said provisional region detection section to said frame synchronous pattern detecting section,” which is considered in combination with other limitations, as specified in the independent claim 21.

Regarding claims 22, 32–33, the prior art of the record fails to teach a frame synchronous pattern detection apparatus comprising “a provisional region detection section for sampling given data, and identifying and holding a region or parallel data in which an object frame synchronous pattern is presumably included as provisional region data; and a frame synchronous

pattern detecting section for detecting, from said provisional region data, the object frame synchronous pattern, said provisional region data being serialized and output from said provisional region detection section to said frame synchronous pattern detecting section,” which is considered in combination with other limitations, as specified in the independent claim 22.

Regarding claims 23, 34–35, the prior art of the record fails to teach a frame synchronous pattern detection method comprising the steps of “sampling parallel data; identifying and holding a region of the parallel data in which an object frame synchronous pattern is presumably included as provisional region data; and detecting the object frame synchronous pattern using said provisional region data converted into serial form,” which is considered in combination with other limitations, as specified in the independent claim 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchau Ba Nguyen whose telephone number is 571-272-3148. The examiner can normally be reached on Monday-Friday from 10:00 a.m. to 2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 571-272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Application/Control Number: 09/989,858
Art Unit: 2616

Page 7

Representative or access to the automated information system, call 800-786-
9199 (IN USA OR CANADA) or 571-272-1000.



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